



## News from Scandiatransplant office

September 2019

### Introduction

#### Headlines

- Change in menu structure
- Deceased donor, new field, Abdominal CT
- Deceased donor, ICU stay and time on ventilation
- Ischemia time + machine perfusion
- Old kidney cardboards have been scanned and are now available
- Kidney recipient search result
- Information lacking on deceased donors
- cDCD parameters in YASWA
- Barcode scan of person numbers

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Database update  
Sept. 12<sup>th</sup> 2019

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All previous newsletters can be found on the Scandiatransplant web page

<http://www.scandiatransplant.org/news/newsletters>

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### Purpose

By this information letter, we wish to communicate to you about status and progress related to the database, collaboration with groups related to Scandiatransplant and on-going working projects.

We hope that you will read it and share the information with whom it might concern.

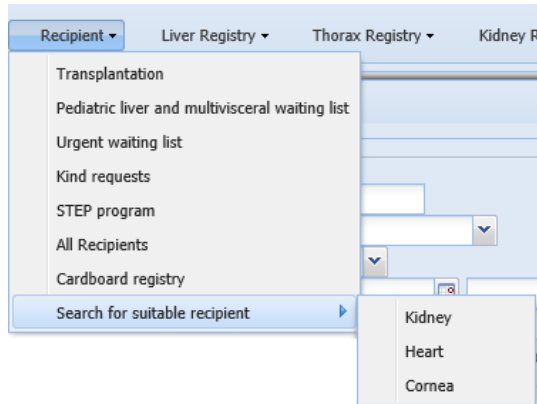
Do not hesitate to contact us for further information, ideas, problems and help.

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## Change in menu structure

Due to contentious additions of new menus, it has been necessary to add a sub level to the structure. So please be aware that the menu structure looks a bit different from what you have been used to.

### Addition of sub menus



## Deceased donor, new field, abdominal CT

This update includes a new field in 'Donor' -> 'Deceased Donor' with the possibility to register information about abdominal CT scan. The information is included on the organ offer form.

### New field Abdominal CT scan

A screenshot of a medical form with multiple tabs: Basic, Infection, Laboratory tests, Medical info, Blood gas & vent, Medication, HLA, Organ proc., Organ offer, Organ QC, and Files. The 'Medical info' tab is active. The form contains various fields for patient data, including Temperature (36.5 °C), Diuresis (250 ml/h), Proteinuria (N: No), Systolic blood pressure (117 mmHg), Diastolic blood pressure (54 mmHg), Pulse rate (75 /min), MAP (78), Hypotensive period (N: No), Duration (from to min), Cardiac arrest (N: No), Duration (from to min), Hypertension (N: No), Treated diabetes (N: No), Past/Pres Malign Neoplasia (N: No), Past/Pres Drug Abuse (N: No), Past/Pres Alcohol abuse (N: No), Smoker (X: Ex-smoker), Pack year, Infection (NO: None), Diseases/Abuses, Medical history (healthy), ECG, ECHO, Coronary angiography, Chest X-ray (Y: Yes, i a), Tracheal secretion (N: No), and Abdominal CT. The 'Abdominal CT' field is highlighted with a red border and contains a dropdown menu with the following options: N: No, ND: N.D., and Y: Yes.

## Deceased donor, ICU stay and time on ventilation

in 'Donor' -> 'Deceased Donor' it is now possible to register time along with date of admission to ICU, which makes an automatically calculation of ICU stay possible.

Furthermore automatically calculation of time on ventilation has been added.

**New field +  
calculations**  
**ICU and ventilation**

The screenshot shows the 'Deceased donor registration' form. The 'Intensive care unit (ICU)' section is highlighted with a red box. It contains the following fields:

- Date of admission: 01-Sep-2019 Time: 07:00
- ICU stay: 2d 10h 0m
- Start of Ventilator Treatment: 01-Sep-2019 Time: 23:00
- Time on ventilator: 1d 18h 0m

## Ischemia time + machine perfusion

Ischemia time is placed in various places around the system. With this update the primary registration of ischemia time for each organ is found in a new tab in 'Recipient' -> 'Transplantation'.

**Relocation access to  
registration of  
ischemia time**

The screenshot shows the 'Transplantation' form. The 'Ischemia time' tab is highlighted with a red box. It contains the following fields:

- Cold ischemia time (DBD/DCD): [ ] hours [ ] minutes
- Functional warm ischemia time (DCD): [ ] hours [ ] minutes
- Calculated ischemia time: 8 hours 40 minutes
- Ex Vivo Machine perfusion: N: No

Ischemia time can still also be registered through the various registries.

Calculated ischemia time is displayed when both organ preservation time (Deceased donor -> organ proc.) and tx time (transplantation) have been registered.

Additionally, a new field for registration of ex vivo machine perfusion has been added in this tab.

## Old kidney cardboards have been scanned and are now available

Approx. 15000 old cardboards placed in Aarhus with details (HLA etc.) about some of the first kidney transplantations have been scanned and they are now available through YASWA.

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### Scanning of old cardboards with tx information

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The cards are accessible both through 'All recipients' and the new menu 'Cardboard registry'

Access through Recipient -> All recipients

If a match has been found between an existing recipient in the database and a cardboard a new 'Card' tab will appear in relation with the recipient

The screenshot displays the 'Recipient information' form in the YASWA system. The form includes fields for Scandia Number (6), Nationality (DK: Denmark), Sex (F: Female), Date of Birth, Person Number, Surname, and First Name. It also contains sections for Transplantation History, Survival Status, Waiting list status, Urgency, and Treatment center. Below the form, a navigation bar includes tabs for Basic info, Clinical data, Address/Phone, HLA Typing, Antibody Screen Test, Fusion, Acceptable Antibodies, Previous Mismatches, Death, and Card. The 'Card' tab is highlighted with a red box. Below the navigation bar, there are sections for Card comments, Side (a, b), and a scanned kidney cardboard. The scanned cardboard is a form with handwritten and printed information, including Tissue typing center (Aarhus), HL-A type (22, 9, 19, 69: 2, 1ND/9), Scandia No. (6), DIAGNOSIS (Lupus, Nefritis, Uraemi), DIALYSIS status (yes, from date 19/9/1969), and Hospital (Aarhus Kommunehospital, Medicinsk afd. C). The contact information is listed as 1. R-lage, med. afd. C, phone no. 12 55 55, lok. 233.

If you go to the tab and click on side a, b,.... you will get the scanned cardboard displayed.

Access through Recipient -> Cardboard registry

Through this menu you are able to search forward all cards belonging to your own country, both the ones with a matching patient in the database and those without.

## Kidney recipient search result

'Recipient' -> 'Search for suitable recipient' -> 'kidney'

We have had some performance problems with the pdf print, as it gets very heavy if many patients are included.

**Complete result list  
available as  
CSV download**

Now the pdf print only includes 100 patients and in the end of the pdf, the following text is displayed:  
Only first 100 records printed. If full list is required please Download

Additionally, a new CSV download has been added, which is not limited to 100 patients.

Pri...	Sc.No	Rec...	Surname	First Name	Age	Wa...	Tx...	Im...	ABO	AB...	DR...	DSA	CMV	HCV	HB...	Prev...	Type	ST...
7	14	HE	Surname:	First name:	25	2	NI	B	2	0	00:	+	-	-	-	-	KI	
7	15	UP	Surname:	First name:	15	1	NI	B	2	0	00:	-	-	-	-	-	KP	
7	20	HE	Surname:	First name:	12	1	I	B	2	0	00:	-	-	-	-	-	KI	
7	15	OS	Surname:	First name:	34	1	NI	B	3	0	00:	+	-	-	-	-	KI	
7	15	HE	Surname:	First name:	19	1	LI	B	3	0	00:	-	-	-	-	-	KI	

## Information lacking on deceased donors

There is a lot of interest in extracting data from YASWA for calculating donor risk indexes etc.

Sometimes data is completely lacking on 1-3 tabs on deceased donors.

If no information has been registered in Infection, Laboratory Tests and/or Medical info the donor will appear in a new quality control.

'Quality control' -> 'Deceased Donor' -> 'Donors lacking data'.

**Complete result list  
available as  
CSV download**

Donor number	Procuring center	Date of donation	Missing medical info	Missing infection serology	Missing lab test
95	HE: Helsinki		N: No	N: No	Y: Yes
95	RE: Reykjavik		N: No	N: No	Y: Yes
95	HE: Helsinki		N: No	N: No	Y: Yes
95	ST: Stockholm		N: No	Y: Yes	N: No

Clicking on a donor on the list will direct you to the donor, so that you can add the missing data.

## Expansion of cDCD variables in YASWA

### cDCD parameters in YASWA

In the newsletter from April 2019 a suggestion for additional cDCD variables in YASWA were presented. The background is to make quality assurance, comparison of procedures and documentation possible in a larger scale.

Most of the additional parameters are now available in YASWA and ready to be used.

It is recommended to go back and do the registration on the donors already included in the program. By doing this it will be possible to make adjustments according to your wishes.

When 'Donation after circ. Death' is set to 'yes' an additional tab will appear.

The screenshot shows the 'Deceased donor registration' form in YASWA. The 'cDCD' tab is highlighted in red. The form contains the following fields:

- Donor number: 96040
- Sex: M: Male
- Hospitalized in: DK: Denmark
- Citizenship of: DK: Denmark
- Birth-date: 04-Sep-1950
- Person Number: 040950
- Age in years at donation: 68
- Donor name: test
- Temporary ID: test
- Procuring center: AR: Aarhus
- Responsible center: AR: Aarhus
- Original donor hosp.: 8001: Aalborg Universitetshospital
- ABO blood group: 0
- Rhesus D: [dropdown]
- Weight: [input] kg
- Height: [input] cm
- BMI: [input] kg/m<sup>2</sup>
- Surface Area: [input] m<sup>2</sup>
- Calculated total lung capacity: [input]
- Cause of death: 11: Cerebral infarction
- Old cause of death: [input]
- Angiography, arteries: [dropdown]
- Date of death: 03-Sep-2019
- Time: 17:00
- Notes on death: [input]
- Donation realized: Y: Yes
- A: Actual donor
- Date of (no) donation: 03-Sep-2019
- Time: 18:00
- Intensive care unit (ICU)
- Date of admission: 01-Sep-2019
- Time: 07:00
- Start of Ventilator Treatment: 01-Sep-2019
- Time: 23:00
- ICU stay: 2d 10h 0m
- Time on ventilator: 1d 18h 0m
- First regist.: IDW
- 09-Sep-2019
- Latest regist.: IDW
- 09-Sep-2019

If NRP is selected as procurement method yet an additional tab appear

The screenshot shows the 'Deceased donor registration' form in YASWA. The 'NRP' tab is highlighted in red. The form contains the following fields:

- Decision taken of withdrawal of life-sustaining treatment: 03-Sep-2019
- Time: 08:00
- Treatment withdrawal unit: I: ICU
- Diagnostic method: CA,CTC
- cDCD procedure
- Heparin: [dropdown] IU
- Extubation: 03-Sep-2019
- Time: 12:00
- Systolic BP under 50 mmHg (>2 min): 03-Sep-2019
- Time: 14:30
- Cardiac arrest: 03-Sep-2019
- Time: 15:00
- Calculation of minutes
- Extubation to cardiac arrest: 180 minutes
- No touch: 120 minutes
- Procurement method: NRP: Normothermic Regional Perfusion

Additional cDCD parameters have been added in various places among others in the organ procurement tab

Organ type	Cause	Remarks
1 PA: Pancreas		
2 LR: Right Lung	17: DCD - timelimit exceeded	
3 LL: Left Lung	17: DCD - timelimit exceeded	
4 LI: Liver		
5 KR: Right Kidney		
6 KL: Left Kidney		
7 HE: Heart	11: DCD - not part of current program	

## Barcode scan of person numbers

Some centers have barcodes reading patient/donor person number. By clicking on the small barcode icon you are now able to enter the person number by reading the barcode with a hand barcode reader.

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**Person number  
registration with  
barcode scan**

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Bar-code scanning dialog box:

Scanned text: [input field]

Buttons: OK, Cancel